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Customer Number



Patent  
Case No.: 56523US009

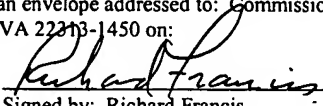
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Named Inventor: WILLIAMS, TODD R.  
Application No.: 10/790898      Group Art Unit: Unknown  
Filed: March 1, 2004      Examiner: Unknown  
Title: DIMENSIONALLY STABLE COMPOSITE ARTICLE

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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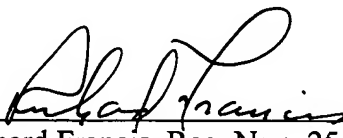
Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

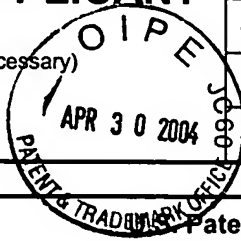
Respectfully submitted,

4/27/04  
\_\_\_\_\_  
Date

By:   
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Richard Francis, Reg. No.: 25,393  
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Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833

|   |                             |                   |
|---|-----------------------------|-------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 1 of 2 | <b>Application Number</b>   | 10/790898         |
|   | <b>Filing Date</b>          | March 1, 2004     |
|   | <b>First Named Inventor</b> | Williams, Todd R. |
|   | <b>Art Unit</b>             | Unknown           |
|   | <b>Examiner Name</b>        | Unknown           |
|   | <b>Attorney Case Number</b> | 56523US009        |



| Patent Documents |          |                                  |  |   |   |
|------------------|----------|----------------------------------|--|---|---|
| Exam. Init.*     | Cite No. | Document Number                  | Publication Date or Issue Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                  |          | Doc. Number-(Kind Code if Known) |  |   |   |
|                  | A1       | US- 2,585,915                    | 02-19-1952                                   | Chavannes                                       |   |
|                  | A2       | US- 3,689,346                    | 09-05-1972                                   | Rowland   |   |
|                  | A3       | US- 4,191,451                    | 03-04-1980                                   | Hodges  |   |
|                  | A4       | US- 4,374,077                    | 02-15-1983                                   | Kerfeld   |   |
|                  | A5       | US- 4,414,316                    | 11-08-1983                                   | Conlay  |   |
|                  | A6       | US- 4,560,578                    | 12-24-1985                                   | Freeman   |   |
|                  | A7       | US- 4,576,850                    | 03-18-1986                                   | Martens   |   |
|                  | A8       | US- 4,582,885                    | 04-15-1986                                   | Barber  |   |
|                  | A9       | US- 4,668,558                    | 05-26-1987                                   | Barber  |   |
|                  | A10      | US- 4,810,435                    | 03-07-1989                                   | Kamada, et al.                                  |   |
|                  | A11      | US- 4,920,038                    | 04-24-1990                                   | Budde, et al.                                   |   |
|                  | A12      | US- 5,175,030                    | 12-29-1992                                   | Lu, et al.                                      |   |
|                  | A13      | US- 5,183,597                    | 02-02-1993                                   | Lu  |   |
|                  | A14      | US- 5,260,175                    | 11-09-1993                                   | Kowanz, et al.                                  |   |
|                  | A15      | US- 5,330,799                    | 07-19-1994                                   | Sandor, et al.                                  |   |
|                  | A16      | US- 5,468,542                    | 11-21-1995                                   | Crouch  |   |
|                  | A17      | US- 5,754,332                    | 05-19-1998                                   | Crowley   |   |
|                  | A18      | US- 5,773,126                    | 06-30-1998                                   | Noritake, et al.                                |   |
|                  | A19      | US- 5,815,306                    | 09-29-1998                                   | Sheridon, et al.                                |   |
|                  | A20      | US- 5,847,327                    | 12-08-1998                                   | Fischer, et al.                                 |   |
|                  | A21      | US-                              |  |   |   |
|                  | A22      | US-                              |  |   |   |
|                  | A23      | US-                              |  |   |   |
|                  | A24      | US-                              |  |   |   |
|                  | A25      | US-                              |  |   |   |
|                  | A26      | US-                              |  |   |   |

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| <b>*Examiner:</b>  | <b>Date Considered:</b> |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                         |

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|   | <b>Examiner Name</b>        | Unknown           |
|   | <b>Attorney Case Number</b> | 56523US009        |

| Foreign Patent Documents |          |                         |                            |                                |  |   |                               |
|--------------------------|----------|-------------------------|----------------------------|--------------------------------|--|---|-------------------------------|
| Exam. Init.*             | Cite No. | Foreign Patent Document |                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | Translation<br>(Check if yes) |
|                          |          | Ctry. Code              | Number-KindCode (If known) |                                |  |   |                               |
| /                        | B1       | EP                      | 0 130 659 A1               | 01-09-1985                     |  |   |                               |
| /                        | B2       | EP                      | 0 228 671 A1               | 07-15-1987                     |  |   |                               |
|                          | B3       | DE                      | 44 21 559 A1               | 12-21-1995                     |  |   |                               |
| /                        | B4       | JP                      | 58000268                   | 01-05-1983                     |  |   |                               |
|                          | B5       | WO                      | 80/01472                   | 07-24-1980                     |  |   |                               |
| /                        | B6       | WO                      | 90/15673                   | 12-27-1990                     |  |   |                               |
| /                        | B7       | WO                      | 98/21626                   | 05-22-1998                     |  |   |                               |
| /                        | B8       | WO                      | 00/00563 A1                | 01-06-2000                     |  |   |                               |
| /                        | B9       | WO                      | 00/73083 A1                | 12-07-2000                     |  |   |                               |
|                          | B10      |                         |                            |                                |  |   |                               |

| OTHER DOCUMENTS |          |  |                               |
|-----------------|----------|--|-------------------------------|
| Exam. Init.*    | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | Translation<br>(Check if yes) |
|                 | C1       | Darren Hitchcock, "Microvias, High Speed, and Flex," Proc. IPC Natl. Conf. on Flexible Circuits, 19-20 May 1997 (Phoenix, AZ).   |                               |
|                 | C2       | Charles Lassen, "Build-Up Multilayers," Printed Circuit Fabrication 20 (6), June 1997, pp. 22-24.  |                               |
|                 | C3       | Charles E. Bauer, "Using Chip Scale Packages," Advanced Packaging 5 (4), July/August 1996, pp. 8-10.   |                               |
|                 | C4       | Howard Green and Phillip Garrou, "Introduction to Large Area Substrate Processing," Advancing Microelectronics 24 (2), March/April 1997, pp. 10-15.  |                               |
|                 | C5       | E. P. Plueddemann, <u>Silane Coupling Agents</u> , 2nd Ed., Plenum Press, New York, 1991 (Book).   |                               |
|                 | C6       | N. Taniguchi, <u>Nanotechnology</u> , Ed., Oxford University Press, Oxford, 1996, and references noted therein (Book).   |                               |
|                 | C7       |  |                               |

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